

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year)
19 November 2001 (19.11.01)

From the INTERNATIONAL BUREAU

To:

KOHRS, Martin
Thomson multimedia
46, quai Alphonse Le Gallo
F-92648 Boulogne Cedex
FRANCE

RECEIVED
FEB 11 2002
Technology Center 2100

Applicant's or agent's file reference PF990032	IMPORTANT NOTIFICATION		
International application No. PCT/EP00/04965	International filing date (day/month/year) 31 May 2000 (31.05.00)		

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address THOMSON MULTIMEDIA 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt France	State of Nationality FR	State of Residence FR
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address THOMSON LICENSING S.A. 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt France	State of Nationality FR	State of Residence FR
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:
Cession des droits.

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Dominique DELMAS Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION
(PCT Rule 61.2)

Date of mailing (day/month/year) 14 February 2001 (14.02.01)	To: Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/EP00/04965	Applicant's or agent's file reference PF990032
International filing date (day/month/year) 31 May 2000 (31.05.00)	Priority date (day/month/year) 02 June 1999 (02.06.99)
Applicant LEGALLAIS, Yvon et al	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

19 December 2000 (19.12.00)

in a notice effecting later election filed with the International Bureau on:

2. The election was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Zakaria EL KHODARY
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2000 (14.12.2000)

PCT

(10) International Publication Number
WO 00/76140 A1

(51) International Patent Classification⁷: H04L 12/56, 12/46 (74) Agent: KOHRS, Martin; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(21) International Application Number: PCT/EP00/04965

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 31 May 2000 (31.05.2000)

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
99401330.8 2 June 1999 (02.06.1999) EP

(71) Applicant (*for all designated States except US*): THOMSON MULTIMEDIA [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 Boulogne-Billancourt (FR).

(72) Inventors; and

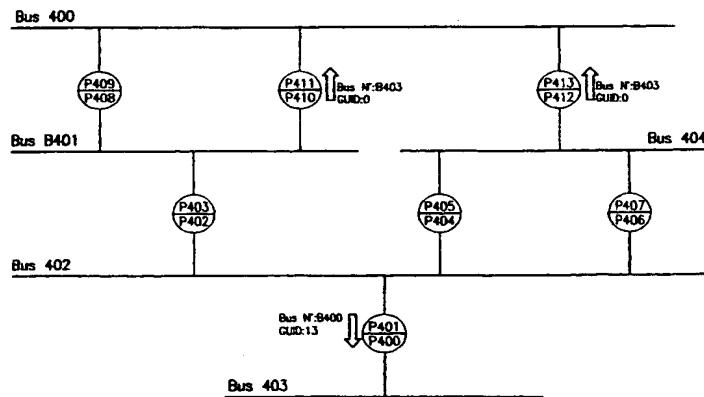
(75) Inventors/Applicants (*for US only*): LEGALLAIS, Yvon [FR/FR]; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). SIROT, Joel [FR/FR]; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). STRAUB, Gilles [FR/FR]; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR ESTABLISHING A ROUTING TABLE IN A COMMUNICATION NETWORK



WO 00/76140 A1

(57) Abstract: The invention concerns a method for determining a routing table in a communication network comprising buses connected by bridges, each bridge comprising two companion portals, a first portal being connected to a first bus and a second portal being connected to a second bus, each bus being identified by a unique bus identifier, each portal being identified by a unique portal identifier. The inventive method comprises the steps of: (a) transmitting, by said given portal, routing table data stored by said given portal to the given portal's companion portal and receiving, by said given portal, routing table data from its companion portal; (b) concatenating said received routing table data with the contents of the given portal's own routing table; (c) broadcasting said given portal's own routing table data on the portal's local bus; (d) receiving routing table data broadcast by other portals on the local bus, and concatenating said received routing table data with contents of the given portal's own routing table; (e) repeating the above steps by said given portal until routing data concerning all buses in the network has been received. The invention also concerns a portal device for implementing the above method.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/04965

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/56 H04L12/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 571 261 A (TELECOMMUNICATIONS SA) 24 November 1993 (1993-11-24) column 2, line 56 -column 3, line 33 -----	1-14
A	TSUNG-YUAN TAI ET AL: "LAN INTERCONNECTION: A TRANSPARENT, SHORTEST-PATH APPROACH" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, US, NEW YORK, IEEE, page 1666-1670 XP000277596 ISBN: 0-7803-0006-8 paragraph 3.1 -----	1-14
A	D. ANDERSON: "Fire Wire system architecture" 1998, ADDISON WESLEY, USA XP002123887 page 22 -page 34 -----	1,14

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

20 November 2000

28/11/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Perez Perez, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/04965

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0571261 A	24-11-1993	FR 2691312 A		19-11-1993

PATENT COOPERATION TREATY

EXPRESS MAIL K 816049670615

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KOHRs, Martin
THOMSON MULTIMEDIA
46 Quai Alphonse Le Gallo
F-92648 Boulogne Cedex
FRANCE

KOH.	
THOMSON multi	media
RECEIVED	
- 2 AVR. 2001	
Patent Department	
Administration - Paris	

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year) 30.03.2001

Applicant's or agent's file reference PF990032	IMPORTANT NOTIFICATION	
International application No. PCT/EP00/04965	International filing date (day/month/year) 31/05/2000	Priority date (day/month/year) 02/06/1999
Applicant THOMSON MULTIMEDIA et al.		

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/I8/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Barrio Baranano, A Tel. +49 89 2399-8621	
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PATENT COOPERATION TREATY

PCT

REC'D 04 APR 2001

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF990032	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP00/04965	International filing date (day/month/year) 31/05/2000	Priority date (day/month/year) 02/06/1999	
International Patent Classification (IPC) or national classification and IPC H04L12/56			
<p>Applicant THOMSON MULTIMEDIA et al.</p> <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input checked="" type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application 			

Date of submission of the demand 19/12/2000	Date of completion of this report 30.03.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Droneau, S Telephone No. +49 89 2399 7954



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/04965

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).*):

Description, pages:

1-18 as originally filed

Claims, No.:

1-14 as originally filed

Drawings, sheets:

1/6-6/6 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/04965

the drawings, sheets:

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-14
 No: Claims

Inventive step (IS) Yes: Claims 1-14
 No: Claims

Industrial applicability (IA) Yes: Claims 1-14
 No: Claims

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/04965

V.Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

I

The following documents have been considered for the purposes of this report:

- D1: EP-A-0 571 261 (TELECOMMUNICATIONS SA) 24 November 1993 (1993-11-24)
- D2: TSUNG-YUAN TAI ET AL: 'LAN INTERCONNECTION: A TRANSPARENT, SHORTEST-PATH APPROACH' PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, US, NEW YORK, IEEE, page 1666-1670 XP000277596 ISBN: 0-7803-0006-8
- D3: D. ANDERSON: 'Fire Wire system architecture' 1998 , ADDISON WESLEY , USA XP002123887

II

The invention concerns a method and a device for determining a routing table in a communication network comprising buses connected by bridges, each bridge comprising two companion portals, a first portal connected to a first bus and a second portal connected to a second bus, each bus being identified by a bus identifier, each portal being identified by a unique portal identifier.

Document D1, considered as the closest prior art, discloses a method of gestion of routing in a packet communication network, characterised in that :

- each switch memorises a collection of routing tables, each routing table corresponding to each other packet switch in the network, containing at least one routing information about a possible path between the considered packet switch and the other packet switch.
when a connection between two packet switches is not available any more,
- each adjacent packet switch modifies its own routing tables, and
- those two adjacent switches transmit the corresponding routing information to their own other adjacent switches

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/04965

- every concerned switch modifies eventually its own routing tables according to the received modifications and transmits them to its own **other** adjacent switches (which still do not have received the modifications to be done)

Document D1 differs from the Application in that every switch has a **collection of routing tables** and in that it concerns a method of **updating** this collection of routing table **when a modification in a certain connection between two switches occurs.** In this case, every switch has already memorised a collection of routing tables whereas the Application proposes a method of **establishing** a routing table in a communication network.

Document D2 proposes a new intelligent MAC layer device called brouter which allows all links to be effectively utilised and shortest paths to be used. the brouter id has to be unique in the whole network and each port being identified uniquely within a brouter. Uniform address domain or flat addressing on station id is employed to support dynamic station relocation. D2 is therefore considered as defining the general state of the art and not particularly relevant.

Document D3 is the overview of the IEEE 1394 Architecture and can therefore also be considered as defining the general state of the art.

An inventive step is therefore acknowledged and the claims 1 to 14 fulfill the requirements of Article 33(3) PCT.

VII. Certain defects in the international application

1. To meet the requirements of Rule 5.1(a)(ii) PCT, document D1 should be identified in the description and the relevant background art disclosed therein should be briefly discussed.

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PF990032	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 00/ 04965	International filing date (day/month/year) 31/05/2000	(Earliest) Priority Date (day/month/year) 25/11/1999
Applicant THOMSON MULTIMEDIA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. **Certain claims were found unsearchable** (See Box I).

3. **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

6

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 00/04965

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/56 H04L12/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 571 261 A (TELECOMMUNICATIONS SA) 24 November 1993 (1993-11-24) column 2, line 56 -column 3, line 33 ---	1-14
A	TSUNG-YUAN TAI ET AL: "LAN INTERCONNECTION: A TRANSPARENT, SHORTEST-PATH APPROACH" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, US, NEW YORK, IEEE, page 1666-1670 XP000277596 ISBN: 0-7803-0006-8 paragraph 3.1 ---	1-14
A	D. ANDERSON: "Fire Wire system architecture" 1998 , ADDISON WESLEY , USA XP002123887 page 22 -page 34 -----	1,14

 Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

20 November 2000

28/11/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Perez Perez, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 00/04965

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0571261	A 24-11-1993	FR AT DE DE ES	2691312 A 172072 T 69321391 D 69321391 T 2125964 T	19-11-1993 15-10-1998 12-11-1998 20-05-1999 16-03-1999